

Name of Facility

1600 South Second Street Mount Vernon, WA 98273-5202 ph 360.428.1617 fax 360.428.1620 www.nwcleanair.org

Refinery

Shell, Puget Sound

Air Operating Permit Excess Emissions Report Form Part II

Tim Figgie

Date of notification	November 23, 2		Incident type: breakdown/ upset/startup		Breakdown
Start Date	November	23 2010	or shutdown Start Time:		1:00 AM
End Date	November 23, 2010		End Time:		2:00 AM
Process unit or system(s): SRU4		A	T LITE TIME!		2.00 AH
Incident Description					
On November 23, 201					
feed. The loss of AAG feed was caused by valves on the amine recovery unit (ARU) that had froze up due to a cold winter storm that hit the area. With the loss of AAG feed the automated					
control systems shutdown the SRU3 and the diverter valves automatically bypass the Tail Gas					
unit, which results in high SO2 in the incinerator stack. Once the unit was stabilized the SO2					
emissions dropped. The 250-ppm SO2 12-hour rolling average limit was not exceeded.					
Immediate steps taken to limit the duration and/or quantity of excess emissions: SRU4 operations was stabilized as soon as possible.					
SKO4 operations was stabilized as soon as possible.					
Applicable air operatin	a permit				
term(s): 4.10 & 4.11	g p =				
Estimated Excess Emissions:		Pollutant(s):		Pounds (Estimate):	
Based on SO2 CEMS and calculated		S02		98	
stack flow					
Scheduled of Poor or inaction Careless, poor or inaction A reasonab	equipment sequipment sequipment sequate des dequate des oor, or inad dequate ma ly prevental	startup shutdown sign equate oper intenance ole condition	ration n	apply):	
Did the facility receiv	e any comp	iaints from	tne public?		
No No					
Yes (provid	e details be	low)			
Did the incident resul	t in the viol	ation of an	ambient air qu	ality standard	
No No					
Yes (provide details below)					
Root and other contri					
The root cause of th hit the area.	is incident v	vas valves o	on the ARU tha	t froze due to	cold temperatures that

Reported by

Page 2 The root cause of the incident was: (The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615)) \bowtie Identified for the first time Identified as a recurrence (explain previous incident(s) below – provide dates) Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions below? No Yes (describe below) The root cause of this incident was valves on the ARU that froze due to cold temperatures that hit the area. Definition of NSPS "Malfunction": Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2 <u>Definition of NESHAP "Malfunction"</u>: Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2 Analyses of measures available to reduce likelihood of recurrence (evaluate possible design, operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost; determine if an outside consultant should be retained to assist with analyses): The problematic valves have been added to a yearly check off sheet for cold weather protection. Description of corrective action to be taken (include commencement and completion dates): See above If correction not required, explain basis for conclusion: See above Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107). ⊠No ∏Yes Is the investigation continuing? Is the source requesting additional time for completion of the report? \bowtie No \square Yes Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete. Prepared By: _ Jason Smolsnik__ Date: ____ Date: _/ Z/Z8//S Responsible Official or Designee:

Air Operating Permit

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